

I CLAIM:

1 1. A laryngoscope comprising:

2 a handle and a blade, with the blade having a
3 proximal end connected to the handle and a distal end
4 projecting laterally therefrom;

5 camera means mounted on the blade in the vicinity of
6 the distal end for observing a visual field; and

7 display means operatively connected to said camera
8 means for displaying the visual field at a preselected
9 location.

1 2. The laryngoscope as claimed in Claim 1, further including
2 lighting means for illuminating the visual field.

1 3. The laryngoscope as claimed in Claim 2, further including
2 power supply means for powering said camera means and
3 said display means.

1 4. The laryngoscope as claimed in Claim 3, wherein said
2 power supply means ^{are} ~~is~~ mounted in the handle.

1 5. The laryngoscope as claimed in Claim 1, wherein said
2 display means includes ^a ~~a~~ screen mounted on the handle and
3 on which is displayed the visual field observed by the
4 camera means.

1 6. The laryngoscope as claimed in Claim 5, wherein the
2 camera means are a videocamera.

a 1 7. The laryngoscope as claimed in Claim 5, wherein said
2 display means ^{organized to be} are lightweight.

1 8. The laryngoscope as claimed in Claim 1, wherein said
2 camera means are spaced from the distal end of the blade,
3 fiberoptic means providing said operative connection
4 between the camera means and the display means.

1 9. The laryngoscope as claimed in Claim 8, wherein said
2 fiberoptic means include a plurality of optic fibers.

1 10. The laryngoscope as claimed in Claim 8, wherein said
2 fiberoptic means include a fiberoptic tube.

1 11. The laryngoscope as claimed in Claim 5, wherein said
2 camera means comprise a computer chip camera.

1 12. The laryngoscope as claimed in Claim 11, wherein said
2 display means are connected electrically to said computer
3 chip camera.

1 13. The laryngoscope as claimed in Claim 1, characterized
further in that it is ^{made of} lightweight and portable and the

3 power supply means comprises a battery, the display means
4 mounted on the handle adjacent to a line of sight of an
5 intubator directly viewing the visual field itself.

1 14. The laryngoscope as claimed in Claim 13, wherein the
2 display means ^{are} is positionable to allow the ^{professional} intubator
3 simultaneous viewing of the visual field directly and the
4 visual field indirectly through the display means.

1 15. A laryngoscope for use with an intubating instrument in
2 a procedure for intubating a trachea of a patient, the
3 laryngoscope comprising:

4 a handle for ^{a professional} an intubator to grasp in a first hand,
5 a blade with a proximal end connected to the handle and
6 a distal end extending laterally therefrom for insertion
7 into a patient's mouth during the procedure to elevate
8 and move to one side the patient's tongue steadily and
9 constantly;

10 camera means mounted ^{on the blade} in the vicinity of the distal
11 end of the blade for observing a visual field that
12 includes the patient's trachea opening and other oral
13 internal structures;

14 the camera means connected operatively to a portable
15 lightweight display means arranged for the ^{professional} intubator to
16 see the field of view on the display means, whereby the
17 ^{professional} intubator's second hand is available to manipulate the

18 intubating instrument without disturbing the camera
19 means.

1 16. A method of intubating a trachea of a patient by an
2 ^{professional}
3 [^]intubator using an intubating instrument and a
4 laryngoscope, the method comprising steps as follows:

5 providing the laryngoscope with a handle and a
6 blade, the blade having a proximal end connected to the
7 handle and a distal end projecting laterally therefrom;

8 inserting the blade into the patient's mouth while
9 grasping the laryngoscope by the handle using a first
10 ^{professional}
11 [^]hand of the ^{professional}intubator for steadily and constantly lifting
12 and move to one side the patient's tongue and exposing
13 the patient's trachea opening and other oral internal
14 structures to view;

15 providing illuminating means for illuminating the
16 trachea opening and other oral internal structures;

17 providing camera means mounted ^{on the blade} [^]in the vicinity of
18 the distal end of the blade so that it observes a field
19 of view that includes the patient's trachea opening and
20 other oral internal structures;

21 having the camera means operatively connected to
22 display means for viewing the field of view thereon;

23 inserting the intubating instrument into the mouth
24 of a patient using a second hand of the ^{professional}
25 [^]intubator and

23 manipulating the intubating instrument for insertion of
24 a tube into the patient's trachea opening;
25 positioning the display means on the handle so that
26 while the ^{professional} intubator inserts and manipulates the
27 intubating instrument into the patient's trachea the
28 ^{professional} intubator observes the trachea opening and other oral
29 internal structures of the patient on the display means
30 unaffected by the manipulating of the intubating
31 instrument.